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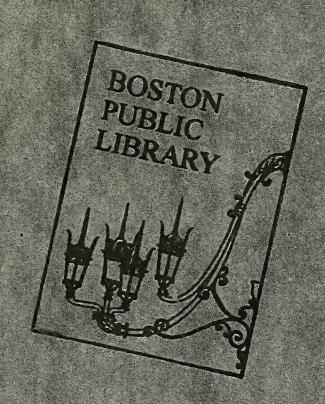
Preliminary Study and Proposal

of

Grove Area Project Draft for Staff Review Only

JA 52-1164

Sept. 1963





INTER-OFFICE COMMUNICATION

TO

Messrs Logue, McMorrow, Drought, Shocken, Rothermel, Crane, Foster, Feltovich, Bok, McGrath, and Alexander

AT

FROM

Mr. John J. DeSimone

AT

DATE .

September 17, 1963

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ATTENTION: SUBJECT

GROVE AREA FROJECT

Attached is a report prepared by Henry T. Reilly concerning the Grove Area Project.

It is being sent to you for review and for consideration as a possible "predominantly open" area project.

The report contains a statement of findings and recommendations as to how the area might be developed.

The plan recognizes existing development and proposes to retain as many of the existing houses in the area as possible, thus, minimizing demolition and relocation problems.

The plan provides 199 single family lots with an average lot size of 7,943 sq. ft., compared to an existing average lot size of about 2,500 sq. ft.. It also provides 6 areas for row housing or apartment construction for approximately 310 new apartments. About 50 new single family homes can be expected to be built with the new site plan. Combining apartment house and new single family house construction, approximately 42 to 5 million dollars could be expected to be invested in the area by private enterprise. This in my opinion is a very conservative estimate.

Maps of the area are not included in this report due to problems of reproduction. They are on display in the rotunda at the Quincy Market.

I would like to have Henry T. Reilly make a presentation of this report and plan on Thursday, October 3 at 2 o'clock in the 11th floor conference room.

I W Roxb



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STATEMENT OF FINDINGS AND RECOMMENDATION
FOR THE GROVE AREA PROJECT

Boston Redevelopment Authority
Prepared by Henry T. Reilly
Supervised by John DeSimone
September, 1963

210.5 3RA

Draft For Staff Review Only

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INTRODUCTION

This report describes the substandard and backward development of a long neglected section of the city, and it endeavors to offer a possible remedy to the situation. It will also demonstrate that the Grove Area Project is eligible for Federal funds to conduct an engineering study in order to determine feasibility for redevelopment.

After having received complaints over a considerable period of time from the residents of the Grove Area, the BRA assigned a staff member the task of writing a federal fund eligibility report for the area. The report concluded that renewal funds were not to be recommended. On this basis nothing was done, but the complaints continued so that a more thorough field survey was undertaken in the fall of 1962. This was followed by intensive research at the Assessor's office and resulted in an analysis of the findings which shall be presented in this report. This analysis establishes the eligibility of the area for Federal funds. Also, a detailed preliminary plan was worked out, based on the best of several alternative plans which were deemed possible. This plan is broader in scope than that suggested previously. It offers the area a practical worth-while solution, from the point of view of the benefit and interest to the present residents, the small scale builders and the city. With this point of view in mind a long neglected part of the city can be upgraded in a most desirable manner. This preliminary plan is presented herein as part of this report.



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For projects such as the Grove Area, consisting of predominately open land, the local planning agency must submit evidence that the land substantially impairs or arrests sound community growth and that there is no reasonable expectation that the land will be constructively utilized through private action.

The Urban Renewal Manual on page 3 under Project Eligibility, Part 3-2 questions a predominately open land area, as one not meeting the "built up" criteria, but which is developed at least to the extent of having deteriorated or obsolete improvements, such as buildings, surfaced streets, curbs, sidewalks, or utilities. Obsolete improvements include those which, though structurally sound, are located in accordance with object subdivision patterns, and the location of which would necessarily interfere with any sound development or redevelopment of the area.

In this report the following factors are considered in order to show that the area is substandard and impairs sound community growth.

- 1. Substandard buildings occupying a considerable portion of the area.
- 2. Improper size and shape of lots.
- 3. Poorly designed, obsolete, or inadequate street patterns.
- 4. Obsolete utilities.
- 5. Deterioration of site improvements.
- 6. Complexities of ownership or title.
- 7. Serious tax delinquency.
- 8. Lack of adequate and convenient access to the area.
- 9. Serious topographical difficulties.

The Grove Area Project, according to this report, possesses most of the above factors and therefore it qualifies for Federal Renewal Funds.







SUMBIALY

The Grove Area is a stagnant underdeveloped section of the city.

The BRA has endeavored to survey the area in order to determine its eligibility for Federal Renewal Funds.

The Grove Area Project is located in West Roxbury, a section of the city which is growing rapidly. The Project Area is a predominantly. open-land area comprising 65.3 acres (including streets), of which 50% are vacant, containing 178 structures, of which 172 are residential and 6 commercial. It is platted on an average into 20 foot width lots with an average size of about 2500 square feet. The streets for the most part are under 15 feet wide, unpaved, layed out irregularly and some exist only on paper. There are no sewers except those serving the border streets. Development has lagged on account of the rough irregular topography, lack of an adequate street pattern and the small lot sizes. This has led to tax delinquency, whereby the city has acquired 25% of the area. Almost all the structures are single family dwellings of which most are in need of minor repairs. It is apparent from the above description, that the Grove Area possesses substantial evidence of predominantly open area blight. In order to correct this situation, it is recommended that the BRA apply for Federal Renewal Funds in order to conduct engineering surveys to determine feasibility for redevelopment.

Several possibilities for improvement of the area have been considered: the area could be left essentially as it is; the structures could all be demolished and an entirely new development be located therein; or some compromise could be established. Also, agents, other than the BRA could be responsible for development, but none of these have the



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power or funds that are available to the BRA.

It is recommended that the BRA be the responsible agent to improve this area. A plan that would allow the great majority of existing structures to remain with a new street pattern complete with services as well as parcels of vacant land large enough to enable small contractors to develop is recommended in this report.

The preliminary plan is based on the above considerations. It contains a total of 8940 feet if ...w road having 25 to 30 foot rights-of-way, new sewers, water mains and storm sewers. Out of a total of 2,780,411 square feet, 9.8% will be devoted to streets, 56.9% to single family homes, 24.5% to apartments, 1.3% to business, and 7.5% to parks and pedestrian rights-of-way. This compares to an existing ratic of 36.6% for single family homes, .5% for apartments, 1.3% for commercial use, 8.9% for streets, 2.6% for paper streets, and 50% for vacant land. The existing roads will, for the greater part, be eliminated. Out of a total of 178 structures, nincteen will have to be demolished or moved for road construction, 9 for apartments, 2 for parks and 5 in order to provide for adequate lot size. The entire cost to the BRA will be approximately \$1,205,774; \$982,000 for road and utility construction alone.

This plan would provide the necessary improvements that are needed to bring this area up to an accepted standard and ensure a proper development of the area unhangered by the existing inadequacies.







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DESCRIPTION OF AREA AND STATEMENT OF FINDINGS

Location

The Grove Area Project is located in Ward 20 within West Roxbury, one-third of a mile from the Dedham line, and 50 minutes by MTA from Downtown Boston. It is bounded by Washington, Grove, Centre and Stimpson Streets.

Description of Surrounding Area

The Project Area is situated in a section of the city that is now growing rapidly. Much of the surrounding area is occupied by single-family homes with large tracts still undeveloped. Along Washington Street, the land is being given over to commercial and apartment interests. There are two elementary schools within walking distance from the project area, one of which, the Beethoven School, is about to undergo expansion. In the vicinity of the corner of Grove and Washington Streets, there is a neighborhood shopping center, a fire house, and the Beethoven School. At the corner of Grove and Centre Streets, there is a large quarry producing crushed stane. (See Appendix Exhibit 1, Maps 1 & 2)

General Land Use and Description of Terrain

The project area comprises 25 blocks having an area of 65.3 acres acres including streets. The area is predominantly open land containing 178 structures of which 172 are residential and 6 commercial. The area was once considered a summer camp area. It is platted on the average into 20 foot width lots with an amorphous street system averaging 15 feet in width. The terrain is rugged with rock out-croppings and secondary growth of scrub.



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Structures

The rough topography is the cause of a considerable amount of vacant land (50%). Yet approximately 700 people live within the area giving an overall density of 10.7 persons to an acre of land. Of the 172 residential structures, all are single-family structures, with the exception of one ten-family apartment building, one threefamily house and five two-family houses. There is also one mixed residential and commercial structure. Most of the buildings, particularly in the interior, are over thirty years of age. (See Appendix Exhibit 2, Map 5) These structures are built of wood with the exception of the apartment house, most of the commercial buildings and a half dozen single family homes. The majority of structures are from one-and-a-half to two-and-a-half stories in height. All structures are owner-occupied with the exception of the 10-family apartment building, and two of the three commercial structures owned by realty companies, one of which is the mixed res/non-res. structure. Most of these are in need of extensive minor repairs. (See Appendix Exhibits 3, 4, 5, & 6, Map 6)

Parcel Size

The vast majority of parcels range from 2000 to 4000 feet, the smallest being 520 square feet, the largest 130,443 square feet. (See Appendix Exhibits 7, 8 & 9)

Streets and Utilities

The streets are narrow, unpaved, rutted and subject to flooding.

The rough topography has contributed to this and has also prohibited the construction of sewers. Water and electricity are available to everyone; however, the rocky landscape and the small size of the parcels, as well as the poor streets, have hindered



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residential development. Hardly any structures have been built in the interior (the area serviced by the inadequate roads) in the last thirty years. (See Appendix Exhibits 10, 11, Maps 7, 8 & 9)

Tax Delinquency

The same factors that have led to the lack of house construction have caused a market depreciation directly affecting the saleability of the vacant land. This has resulted in tax delinquency; consequently, the city has had to acquire ownership of 25% of the area. (See Appendix Exhibits 12, 13, 14, 15, 16, Maps 10, 11.

Social Characteristics

Of the 700 people in the area, almost half are of Irish descent while the rest are fairly well mixed. There are no negroes living in the area and very few of Jawish extraction. These residents belong to a stable middle class group with an average income of \$6500. (See Appendix Exhibit 17)

Conclusion

From the preceding paragraphs and data referred to in the appendix, it is apparent that the Grove Area does indeed possess substantial evidence demonstrating that the conditions within the area impairs or arrests sound community growth, and that there is no reasonable expectation that the land will be constructively utilized through private action. Old rundown auxiliary buildings, undersized parcels, narrow, unpaved streets, lack of sewers, abandoned cars, discarded rubbish, a history of serious tax delinquency and unusually rugged topography have contributed to this area's lack of development.

In order to correct this situation, public action should be taken.



SUGGESTED ALTERNATIVES FOR IMPROVEMENT OF AREA

As it can be demonstrated that the Grove Area Project is, in fact, eligible for Urban Renewal Funds, then it is necessary to suggest what improvements and development should be made. In order to encourage development (either private or public) within the area, it is important that the necessary land be made available and that the necessary civic improvements, such as adequate streets and sewerage, be provided; as it is conversely necessary that in order to make the civic improvements practical, residential development should be included as a necessary part of the overall plan. The two, development and civic improvements, must compliment each other.

According to the BRA eligibility report of May 31, 1961, there are certain alternatives.

- t. Construction of streets and utilities by the Public Improvements Commission, to be accompanied, hopefully, by private acquisition and development of some of the tax title and private, vacant, buildable land.
- 2. Construction of necessary improvements by a private corporation composed of all the property owners of the area who would be moved to contribute their respective shares of total cost on some equitable basis.
- 3. Continuation of the present inaction, except that the city might spread some gravel on the roads to make them passable and require owners of defective cesspools to rebuild them.



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None of the three above alternatives appears acceptable; whereas, the Redevelopment Authority has the power of eminent domain, access to Federal Money that can be made available to it, and the power to make improvements that will insure development to its full potential within the objectives set forth in this report. It is believed that the job can be done economically.







RECOMMENDED PRELIMINARY PLAN FOR GROVE AREA PROJECT

1. Objectives

The following plan for the Grove Area Project has been prepared with these objectives in mind:

- a. Maintain as many existing structures as possible.
- b. Increase the tax base of the city by making all the tax title buildable land available for private development.
- c. Increase the size of single family house lots to a minimum of 6,000 square feet to provide adequate size lots to build on.
- d. Provide land areas large enough to accommodate moderate rent apartment development by small scale contractors.
- e. Stimulate rehabilitation of existing structures in order to enhance the appearance and desirability of the area.
- f. Provide park areas and/or open space by taking advantage of the scenic unbuildable vacant land



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- g. Provide a new interior road system to conform
 to the topography with controlled access points
 to the exterior traffic movement.
- h. Provide road access to all buildable undeveloped land.
- i. Provide sewers and other facilities in order to encourage development.

With these considerations and objectives in mind the following plan was prepared:

2. Land Use Area

The Grove Area under the proposed plan will be completely replatted providing an entirely new street system and land-use pattern. From an existing parcel total of 729, of which 551 are vacant, there will be 217 parcels, of which there will be 199 single family lots, 6 apartment lots, 6 business lots and 6 open space lots. Out of a total area of 2,780,411 square feet, 9.8% will be devoted to streets, 56.7% to single family homes, 24.5% to apartments, 1.3% to business, and 7.5% to open space and pedestrian right -of-way. This compares to an existing ratio of 36.6% for single family homes, .5% for apartments, 1.3% for business, 8.9% for streets, 2.6% for paper streets and 49.9% for vacant land.



The single family lots range from 4,500 square feet to 17,500 square feet with an average size lot of 7,943 square feet; the apartment lots range from 37,300 to 302,900; the business lots range from 2.956 to 10,016 square feet, and the open space lots and pedestrian right-of-way range from 2,250 to 82,750 square feet. (See Appendix Exhibits 18, 19, Map 12)

3. Number of DU's

Eventually, there will be one single family home for each of the 199 single family lots and there will be a total of 320 apartment Du's, including 10 existing apartment DU's, giving a grand total of 519 DU's as compared to 187 existing DU's, or almost triple the present number. This will provide, on the basis of four persons per dwelling unit, for a population of 2,076 people, or 31.8 persons per acre, or 7.9 DU's per acre. (See Appendix Exhibit 20)

4. Open Space

The open space land is all unbuildable land. This land will be city owned. Some of this open space is narrow in width and is intended primarily to serve as pedestrian rights of way.

5. Structures To Be Relocated

Nineteen houses will be removed to another location or demolished because of road construction, nine for apartments, two for parks, two for being in a dilapidated condition and five in order to provide an adequate lot size. This makes a total of 37 houses to be moved or demolished. Those buildings scheduled to be taken for parks and lot size may not be removed as long as they are under present cwnership should the owners prefer not to sell or have their homes removed. It must be understood that the final engineer's report may find it

12,



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necessary to take more buildings, or, more likely, they may actually find it possible to take fewer homes. (See Appendix Exhibit 21)

6. Road Pattern and Utilities

In order to eliminate unnecessary streets and right angle turns, an entirely new road system is proposed. The following factors in designing the road pattern were used as guides: topography, existing buildings and a desire for a simple and smooth flowing circulation system. As a result, the plan consists of a main artery running down the center from north to south off which will branch two loop roads, one in the southeast and one in the northwest, each containing a bisecting north-south secondary road. Three small culs-de-sac plus the existing Bryant Road are included. In order to minimize through traffic, street circulation is designed to facilitate local movement. Four points of ingress and egress are provided, one each to Centre and Stimpson Streets, and two to Grove Street. Two of these are located at each end of the main artery and one off each of the two loop roads. This road pattern will serve all existing and proposed structures, many of which will face away from the roads. This is common practice in many of the better residential areas such as Marblehead and Lincoln. In such cases, the existing road alignment on which these houses face can be converted to driveways. The total length of the roads minus the existing Bryant Road is 8,940 feet, 5,800 feet of which will be 30 feet right-of-way with 20 feet pavement and 3,140 feet of which will be 25 feet right-of-way with a 15 foot pavement. The 30 foot and 25 foot rights-of-way were predicated on the need to recognize the rugged terrain and proximity of the houses to the existing roads, over some of which the new road will pass. Off-street parking will be provided for every DU, and no on-street parking will be permitted.

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The roads will be paved with bituminous concrete. Each road will have sidewalks 3 feet wide on both sides of the street. Between the sidewalk and the curbing will be 2 feet of grass. Here will be located hydrants, utility lines and planted trees. The utility companies will be required to bury all wiring and piping.

worlde

7. Cost Analysis

The entire cost of the construction, including all the work mentioned above, is estimated at \$1,205,774 of which the city's share will be \$401,925. As the city will net \$45,770 from the sale of city-owned land to the BRA, the net cost to the city will be \$356,155 or \$16,960 per year over a 21-year period.

The future yearly tax return from the Project Area, based on the present tax rate and present assessed valuations of present structures and land, will be an estimated \$143,737 or \$126,777 after the annual share of the construction cost is deducted. This compares with a present tax return of \$67,408 per year. Therefore, under the proposed plan, the city will double its tax revenue from the area. (See Exhibits 23, 24, and 25)

8. Conclusion

The 700 persons now living and those that will be living in the Grove Area Project deserve to have decently paved streets, sewers and other necessities which the city provides its other residents. At the same time, an area as large as 65.3 acres within the central city of one of the nation's largest metropolitan areas should not be underused, as land is already too scarce. Therefore the plan presented herein will indeed provide the best possible realization of the goals that were



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set forth. It will insure maximum utilization of the land while providing for the needs of the present residents at a cost the city can afford.

As the Federal Government has enacted Urban Renewal Legislation empowering the local Redevelopment Agency to exercise its authority enabling such areas to be properly developed in the best interests of its residents and the city, it is recommended that the Boston Redevelopment Authority submit a formal request to the H.H.F.A. for Urban Renewal Funds to conduct a feasibility survey of the Grove Area Project.







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APPENDIX I

EXHIBITS

- 1. Non-Residential Uses
- 2. Age of Structures
- 3. Distribution of Deficiencies
- 4. Building Deficiencies by Type of Fault (Graph)
- 5. Building Valuations
- 6. Table of Structures showing Floor Area, Building Valuation, Building Condition and Value Per Square Foot of Floor Area of Each.
- 7. Number of Parcels By Size
- 8. Distribution of Parcels by Area (Graph)
- 9. Table showing Parcel Size Distribution by Block
- 10. Street Width and Length
- 11. Utility Measurements
- 12. Ownership by Area
- 13. Parcel Ownership (Table)
- 14. Parcel Ownership (Graph)
- 15. Contiguous Ownership
- 16. Land Valuations
- 17. Census Tract Data Showing Population By Race,
 Foreign-Born Stock, Years of School Completed,
 Family Income, Number of Families, Population
 by Age and Sex, Employment, Means of Transportation
 and Place of Work



APPENDIX I CONT'D.

EXHIBITS

- 18. Proposed Land Use in Square Feet
- 19. Land Use Present and Proposed (Graph)
- 20. Dwelling Units Existing and Future (Graph)
- 21. Buildings To Be Demolished or Moved (Table)
- 22. Length and Width of Proposed Streets
- 23. Total Cost Estimate of Proposed Plan (Itemized)
- 24. Cost Estimate of BRA Land Purchase and Sale
- 25. Analysis of Revenue and Tax needs to underwrite cost of Project.



Exhibit 1.

NON-RESIDENTIAL USE

This is a list of non-residential uses in order of appearance as one walks northeast along Washington Street and rounding the corner, northwest along Grove Street.

Liquor Store - Washington St.

Super Market _ - Washington St.

Beauty Shop - Washington St.

Shoe Repair - Washington St.

Luncheonette - Corner

Realty - Grove Street

Vacant - Grove Street

Vacant - Grove Street

Pizzeria - Grove Street

Vacant - Grove Street

Vacant - Grove Street

Light Manufacturing - Grove Street

Barber Shop - Grove Street

Real Estate - Grove Street

Star Petroleum Grove Street

Also the following type commercial enterprises are located across Washington and Grove Streets.

Two restaurants

One drug store

One hardware store

Three gas stations

A small manufacturing company



Exhibit 2.

AGE OF STRUCTURES

Most of the structures built since 1940, with the exception of one or two, are located on Grove, Centre, Stimpson Streets and Bryant Road.

Age of Structures

- 3 structures built 1895-1910
- 81 structures built 1911-1918
- 36 structures built 1919-1940
- 32 structures built 1941-1948 by one builder in 1942
- 14 structures built 1949-1962
- 12 structures built have no known date of construction

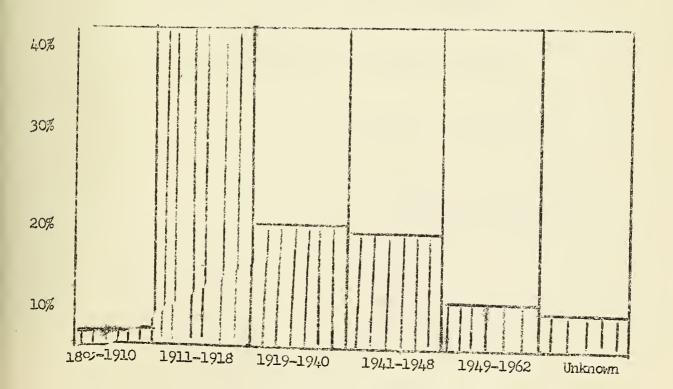




Exhibit 3.

DISTRIBUTION OF DEFICIENCIES

Α.	Total Structures (Major)	178
В•	Total Residential Structures	172 or 97%
C.	Total Mixed ResNon-Res. Structures	1 or .6%
D.	Total Non-Res. Structures of which one	
	structure is 66% vacant	5 or 2.9%
E.	Total structures having "A" condition	75 or 42.1%
10.0	Total Structures having A condition	1) 01 42.01/0
	Total structures having "B" condition	53 or 29.8%
	Total structures having "C" condition	48 or 26.9%
	Total structures having "Der condition	2 or 1.2%

NOTE:

"A" condition means a structure needing little or no repairs.

"B" condition means some minor repairs.

and/or a few major repairs.

"D" condition means extensive major repairs.

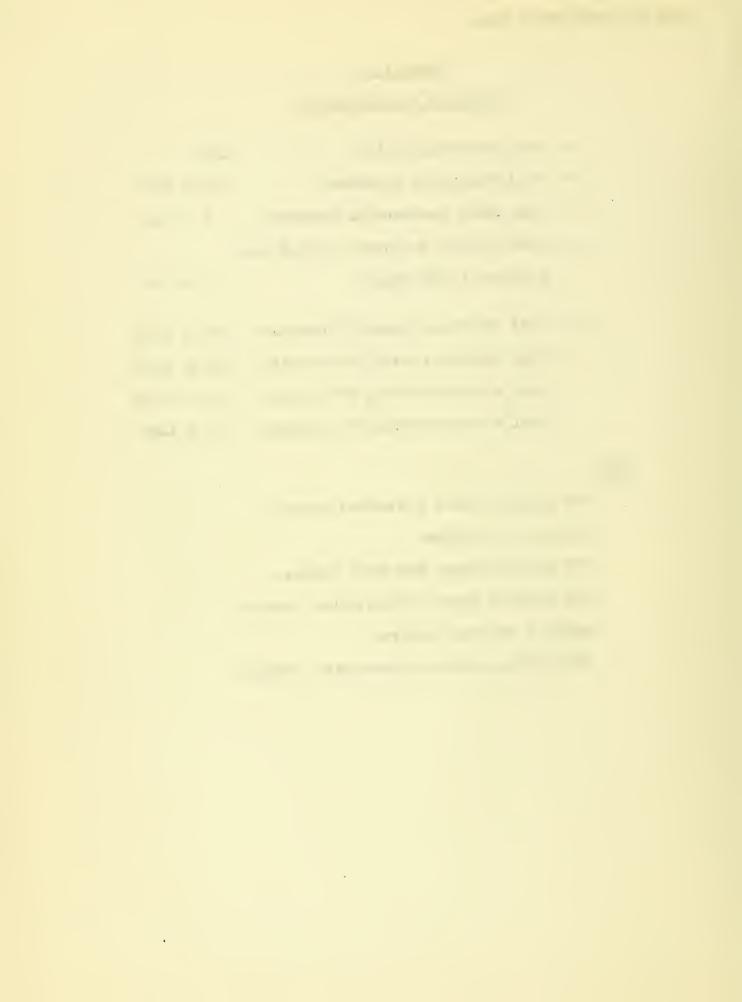




Exhibit 5.

BUILDING VALUATIONS

Total Building Valuation - \$674,077

- A. Of 8 structures valued at \$1.00 or less per square foot of floor area, 3 were in "A" condition, 1 in "C" condition, and 2 in "D" condition.
- B. Of 9 structures valued at \$1.01 \$1.25 per square foot of floor area, 2 were in "A" condition, 3 in "B" condition, and 4 in "C" condition.
- C. Of 16 structures valued at \$1.26 \$1.50 per square foot of floor area, 7 were in "B" condition, and 9 were in "C" condition.
- D. Of 21 structures valued at \$1.51 \$1.75 per square foot of floor area, 2 were in "A" condition, 10 were in "B" condition, and 9 were in "C" condition.
- E. Of 22 structures valued at \$1.76 \$2.00 per square foot of floor area, 4 were in "A" condition, 7 were in "B" condition, and 11 in "C" condition.
- F. Of 14 structures valued at \$2.01 \$2.25 per square foot of floor area, 3 were in "A" condition, 6 in "B" condition, and 5 in "C" condition.
- G. Of 9 structures valued at \$2.26 \$2.50 per square foot of floor area, 3 were in "A" condition, 5 in "B" condition, and 1 in "C" condition.



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Exhibit 5. Cont.

- H. Of 9 structures valued at \$2.51 \$2.75 per square foot of floor area, 5 were in "A" condition, 3 in "B" condition, and 1 in "C" condition.
- I. Of 12 structures valued at \$2.76 \$3.00 per square foot of floor area, 3 were in "A" condition, 5 in "B" condition, and 4 in "C" condition.
- J. Of 10 structures valued at \$3.01 \$3.50 per square foot of floor area, 5 were in "A" condition, 3 in "B" condition, and 2 in "C" condition.
- K. Of 27 structures valued at \$3.51 \$4.00 per square foot of floor area, 27 were in "A" condition.
- L. Of 10 structures valued at \$4.01 \$5.00 per square foot of floor area, 8 were in "A" condition, and 2 in "B" condition.
- M. Of 3 structures valued at \$5.01 \$6.00 per square foot of floor area, 3 were in "A" condition.
- N. Of 3 structures valued at \$6.01 or greater per square foot of floor area, 2 were in "A" condition, and 1 in "B" condition.

The most significant fact here is that the higher the valuation, generally the fewer "C's" and "D's". This is as should be expected.



Exhibit 6.

TABLE OF STRUCTURES (1 of 4)

BUILDING NO.	FLOOR	BUTIDING	BUILDING	VALUE PER SQUARE
	AREA	VALUATION	CONDITION	FOOT OF FLOOR AREA
1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 31 33 34 35 36 37 38 39 40 41 42 42 43 44 44 44 44 44 44 44 44 44 44 44 44	1400 1500 3750 1000 5000 2600 2300 3150 2250 3000 1700 650 800 325 800 800 1200 650 800 2000 500 800 2000 500 1050 3300 750 1000 1100 825 900 1000 1100 1200 1200 1200 1000 1100 1200 1200 1000 1100 1200 1000 1100 1200 1000	3700 3700 6000 9000 15600 4700 9500 7500 5000 36400 2000 900 1100? 700 1400 1400 1400 1400 1400 1400 1400	A B B A B B B B A A A C B A D C C C B C B B B C C A B C A A A B C C A A C A C	2.6 2.47 1.6 9.0 3.1 1.8 4.1 2.38 2.22 12.13 1.17 1.38 1.12 3.38? .87 1.75 1.16 2.15 2.80 1.53 5.00 2.80 1.75 2.15 .80 1.04 2.03 1.86 3.20 2.63 2.30 2.11 1.50 1.80 2.00 2.57 1.91 1.50 1.50 2.47 5.28 2.90 2.44



TABLE OF STRUCTURES (2 of 4)

BUILDING NO.	FLOOR	BUILDING	BUILDING	VALUE PER SQUARE
	AREA	VALUATION	CONDITION	FOOT OF FLOOR AREA
45 46 47 48 49 51 52 53 53 54 55 55 57 58 59 60 60 60 60 60 70 70 70 70 70 70 70 80 80 80 80 80 80 80 80 80 80 80 80 80	750 1000 1100 750 850 700 1200 1200 1600 500 1350 850 700 600 1500 1200 1250 650 900 1150 850 1100 1000 1850 625 700 1300 750 900 1200 1200 1200 1200 1200 1200 1200	1400 1400 1400 1400 1400 1400 1900 1700 1100 1400 1900 1300 1300 900 1800 4400 3200 200 700 1300 1400 1400 1400 1400 1400 1400 14	CCCCCBBCABBBBBBCCBCCABAACBCCACBCCCBABCAAC	1.87 1.40 1.27 1.87 1.65 2.71 1.42 1.10 4.66 1.19 2.00 .96 1.52 1.29 3.00 2.93 2.66 .80 1.75 .86 1.84 2.15 1.77 1.65 3.09 2.00 3.41 6.40 1.86 1.87 2.11 1.55 2.89 1.17 3.11 1.70 2.13 1.89 1.75 2.27 .86 1.38



TABLE OF STRUCTURES (3 of 4)

	FLOOR	BUILDING	BUILDING	VALUE PER SQUARE
	AREA	VALUATION	CONDITION	FOOT OF FLOOR AREA
91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115	800 1200 1000 850 800 900 650 1200 1200 1200 1500 1500 1050 1200 600 950 1300 1050 800 800 600 1400 1600 1050 675 1000 1150 1050 1050 1050 800 800 800 800 800 800 800 800 800	1400 1800 1900 1400 1000 1300 1600 2700 1100 2400 3200 2800 1900 2400 2400 1900 1900 1900 1900 1400 1400 1400 1	CCBCBBCBBBBBBBBCCBAACBCCBCBBBBCBBBAAAA	1.75 1.50 1.90 1.65 1.25 1.44 2.46 2.25 .79 1.92 3.59 1.86 2.11 3.09 1.83 1.27 1.81 1.33 1.66 1.68 1.08 1.81 2.75 5.00 5.90 2.83 2.33 1.36 1.81 1.71 2.52 1.60 2.09 1.76 2.12 2.82 2.40 2.87 2.29 1.83 1.60 3.00 2.86 3.66



TABLE OF STRUCTURES (4 of 4)

A consumption	BUILDING NO.	FLOOR AREA	BUILDING VALUATION	BUILDING CONDITION	VALUE PER SQUARE FOOT OF FLOOR AREA
	133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152	2300 2400 1450 875 1000 775 800 1400 1100 800 1300 1600 1050 1050 1050 1050 1050	3600 2000 4800 2700 3200 1600 4500 3800 3700, 4500 5700 4100 4100 4100 4100 4100 4100 4100 4	C A B A B A A A A A A A A A A A A	1.57 .83 .31 3.09 3.12 2.06 5.63 2.71 2.98 5.63 4.38 2.56 3.90 3.90 3.90 3.90 3.90 3.90 3.90 3.90
The state of the s	153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178	1050 1050 1050 1050 1050 1050 1050 1050	4100 4300 4300 4100 4100 4100 4100 4100	A A A A A A A A A A A A A A A A A A A	3.90 3.90 4.10 4.10 3.90 3.90 3.90 3.90 4.10 3.90 4.10 3.90 4.10 3.90 4.76 3.90 4.76 3.90 4.70 3.90 3.90 3.90 4.10 3.90 4.10 3.90 4.10 3.90 4.10 3.90 4.10 3.90 4.10 3.90 4.10 3.90 4.10 3.90 4.76 3.90 3.90 3.90 4.76 3.90 3.90 3.90 3.90 4.76 3.90 3.70 3.70 4.70 3.70 4.70 1.44

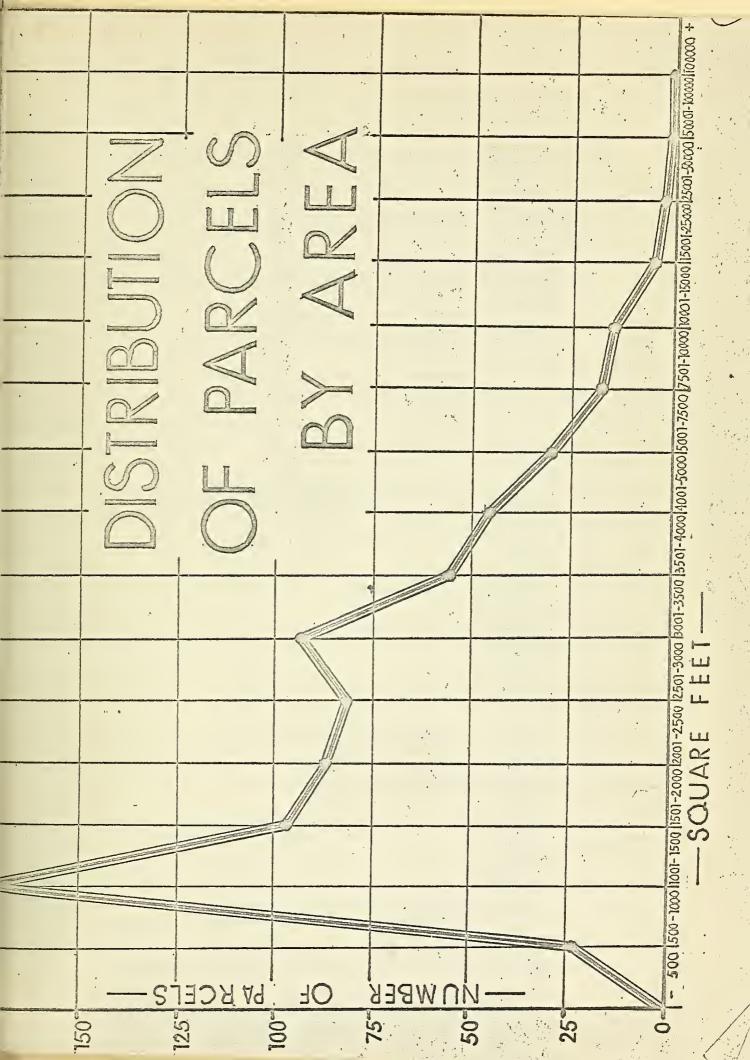


Exhibit 7.

NUMBER OF PARCELS BY SIZE

Sq. Feet	No. Parcels
0 - 500	0
501 - 1000	24
1001 - 1500	178
1501 - 2000	96
2001 - 2500	86
2501 - 3000	80
3001 - 3500	91
3501 - 4000	53
4001 ~ 5000	45
5001 - 7500	34
7501 - 10,000	17
10,001 - 15,000	16
15,001 - 25,000	5
25,001 - 50,000	2
50,001 - 100,500	1
100,000 and over Total Number of Parcels	<u>].</u> 729







		-17
T00,000T	0.0000000000000000000000000000000000000	H
50001- 100,000	000000000000000000000000000000000000000	Н
50000	000000000000000000000000000000000000000	2
1,5001- 2,5000	000000000000000000000000000000000000000	5
10001	ооооооооооооооооооо	91
7501-	©7 000000000000000000000000000000000000	17
5001-	онминнниоооооооооооооооо	34
5000	00 UN 140 000 00 00 00 00 00 00 00 00 00 00 00	45
\$501 4000	00112001721711012101024	53
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3000	しられらいこのことでしてしていころらりからした !!	80
2001	では04mm00mの0mmmでで0mmが0mmが0mmが0mmが0mmが0mmが0mmが0mmが0m	98
1501	HOWG AGH AG	96
01500	20年上午日日の日子中ででもこれでは、20年十十日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日	178
1000	40040000000000000000000000000000000000	772
1500 S	000000000000000000000000000000000000000	.0
TOTAL	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1729
LOCK TOTAL	7982 7984 7984 79812 79819 79815 79815 7982 7982 7982 7982 7982 7982 7982 7982	POTAL

MICHAEL CHARLE CALLE SELLE OF PURCHASINE

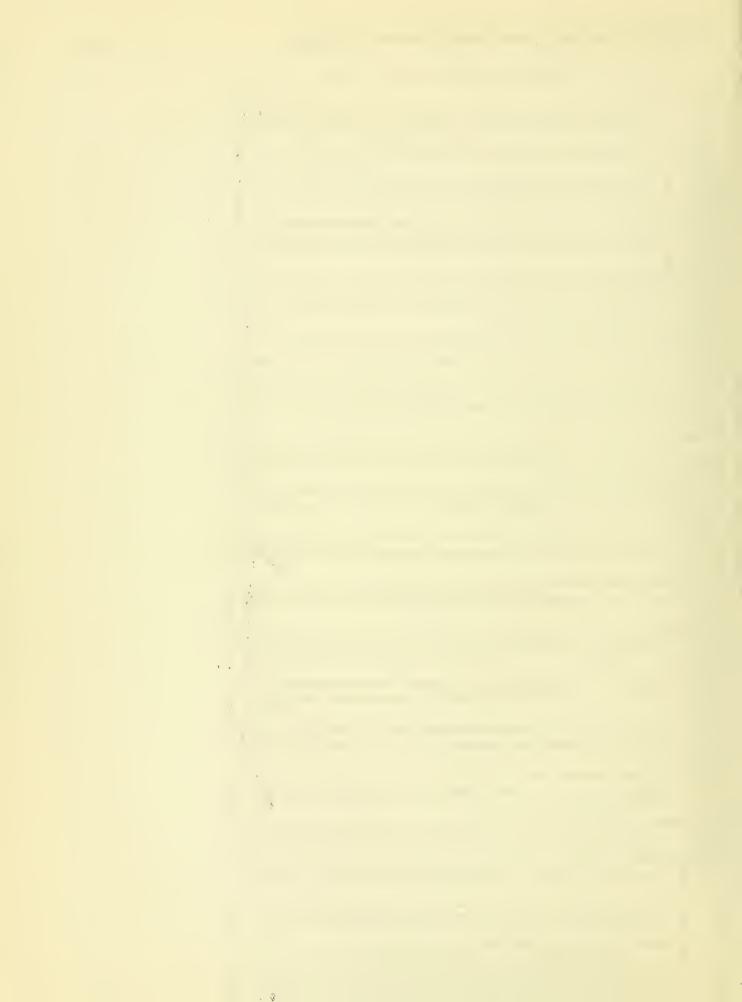


Exhibit 10.

STREET WIDTH AND LENGTH

A. Width

Washington St.	***	100? × 550 = 55,000
Grove St.		60° ×3,020 = 181,200
Centre St.		559 X 2 200 = 12 /,000
Stimpson St.	-	40° × /4 +0 = 57,600
Bryant Rd.	ma	40: ×303
All Others	ė.a	426,800 = 9.2 15' (Give or take 2 or 3')

B. Length

1.	Outside area (Washington, Grove, Centre,	
	Stimpson) Paved	69508
2.	Inside area (All other streets)	
	Paved	6551
	Gravel	10,7400

	109140
Paper	3,5559
Traffic ways (not streets legally)	3851
Total inside street length	15,6358



Exhibit 11.

UTILITY MEASUREMENTS

A.	A. Outside area		Width	Length
	l.	Water pipes	12%	69501
	2.	Storm sewers	30**	151.08
			27"	49408
			<u>24 x 28%</u> Total	500° 6950°
	3.	Sanitary sewers	18 x 204	500 °
			1000 Total	6450° 6950°
В•	Inside	Area		
	1.	Water pipes	12**	25851
			86	56103
			Total	565° 8760°
	2.	2. Storm sewers	1811	2501
			12** Total	550° 800°
	3.	Sanitary sewers	10%	2501



Draft for staff review only.

Exhibit 12.

OWNERSHIP BY AREA

A. Total Area (not including streets) 2,460,611 sq. ft.

Total Acreage (not including streets) 56.5 Acres

B. Total Area Grove-resident-owned 1,497,522 sq. ft.

Total Area City-owned (not streets) 632,614 sq. ft.

Total Area non-Grove-owned 270,403 sq. ft.

Total Area Realty-owned 60,072 sq. ft.

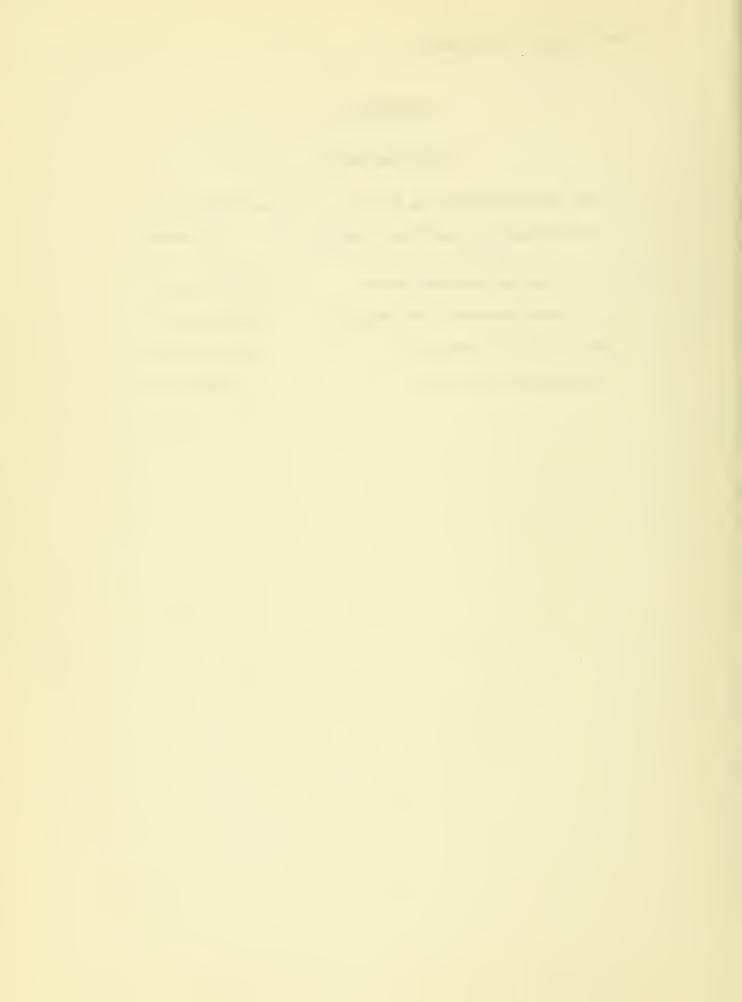


Exhibit 13.

PARCEL CWNERSHIP (1 of 2)

BLOCK	TOTAL	GROVE RESIDENT OWNED	CITY OWNED	NON-GROVE RESIDENT CWNED	REALTY OWNED
B25	30	16 .	. 3	6	5
B24	12	6	··. 2	4	0
B18	21	9	. 7	5	0
B19	×. 30	7	19	· 4 .	· O
B23	19	8	10	. ı .	0
B22	12	8	4	. 0	, O ,
B21	9	2	7	. 0 .	σ
.B20	19	<u>"</u> 12	6	1	0 /
B16	12	0	0	0	12
B17	9	4	5	O	QQ V
B14.	7	7	, 0	°O	. 0
B15	40	., 21,	11	8	0
B10	29	18	5	6.	0
Bll	24	6 .	11	7	0
В 7	13	ŀ	. 7	5	0 .
B 8	. 23	2	18	3	. 0
В 9	18	4	13	1	0
B 6	17	7	9 .	. 1	O
B 5	24	6	13	5	0
B 4	.44.	17	25	·2·	. O
В 3	62	. 31	-28 -	3	0
B 2	13	6	4.	3.	0



Exhibit 13. Cont.

PARCEL OWNERSHIP (2 of 2)

BLCCK	TOTAL	GROVE RESIDENT OWNED	CITY OWNED	NON-GROVE RESIDENT OWNED	REALTY OWNED
B12	43	36	7	0	0
B13	83	48	22	13	0
в 1	116	69	47	_6_	0
TOTAL	729	351	277	84	17

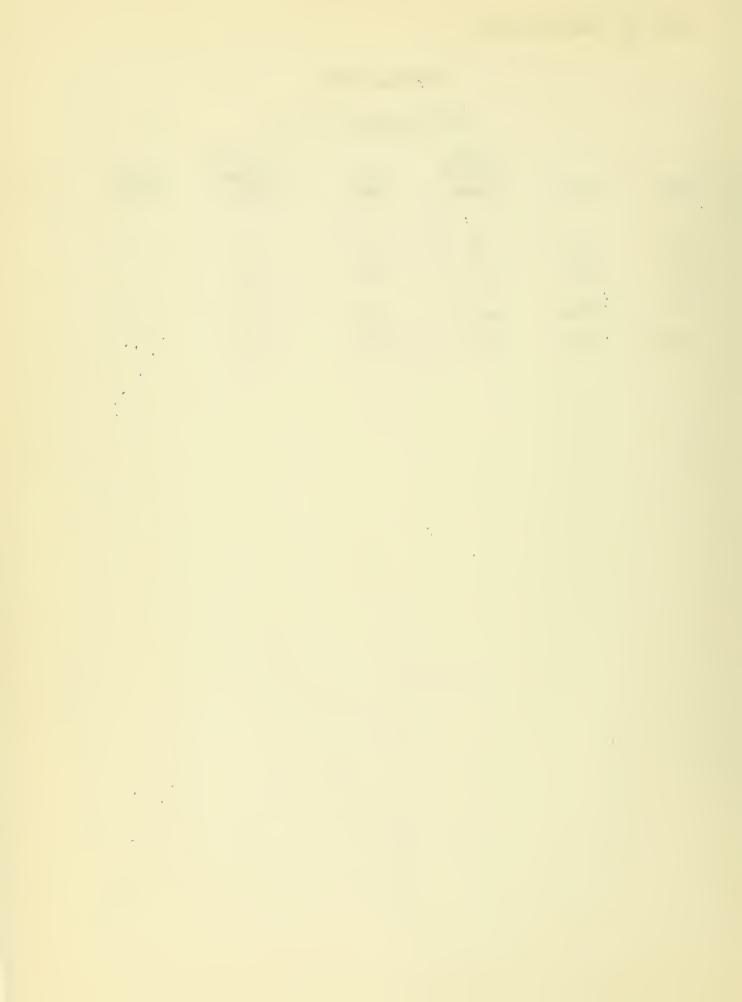


exhibit 1514

PARCEL OWNERSHIF

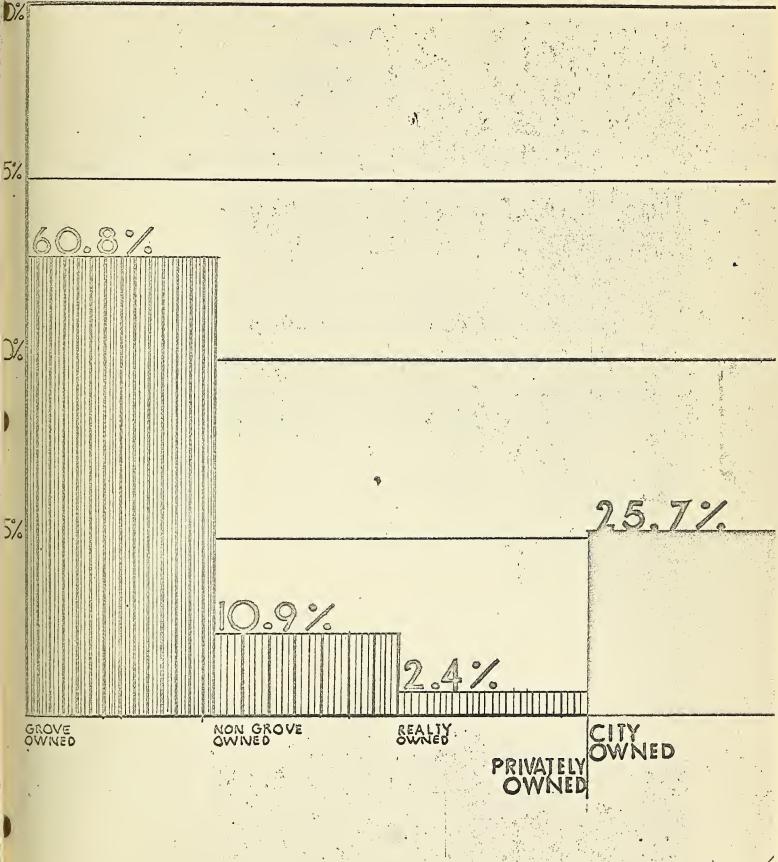




Exhibit 15

CONTIGUOUS OWNERSHIP

A unit of contiguous cwnership is that land comprising one so more contiguous parcels within a block that is under single ownership.

- A. There are 329 units of contiguous ownership; 196 Grove-owned, 65 city-owned, 65 non-Grove owned, and 3 Realty-owned.
- B. The median ownership unit is about 4800 square feet.

 The median Grove-owned unit is about 5100 square feet.

 The median City-owned unit is about 3000 square feet.

 The median non-Grove-owned unit is about 2600 square feet.

 The median Realty-owned unit is about 13,500 square feet.
- C. There are 190 units consisting of only 1 parcel, 68 consisting of 2 parcels, 24 of 3, 19 of 4, 7 of 5, 0 of 6, 2 of 7, 3 of 8, 6 of 9, and 9 consisting of 10 or more parcels.



Exhibit 16.

DISTRIBUTION OF LAND VALUATIONS PER SQ. FOOT

Total land valuation	-	-	\$143,977.40
Percent of area	7	alue per s	quare foot
•4%		\$.0114	
8.4		.02	
32.5		•03	
15.5		.04	
11.7		•05	
8.4		•06	
4.3		.07	
5.4		•08	
2.8		•09	
6.2		.10	
•2		.11	
•1		•12	
•2		•13	
•2		•14	
•5		.15	
•1		•16	
•4		.18	
•6		•36	
•5		.50	
•6		1.00	

Average valuation is about \$.04 per square foot.



Exhibit 17.

GROVE AREA PROJECT

CENSUS DATA W-6-D

POPULATION BY RACE

Total Pop.		7459
White	7424	
Negro	21	
Other	14	

FOREIGN BORN STOCK

7	otal Foreign	Born	Stock	3371
F	oreign Born		973	
N	lative or Mixe	ed		
I	arentage	2	2398	
ί	J.K.		273	
I	lire		854	
I	lorway		44	
5	weden		115	
(ermany		307	
F	oland		90	
(Check.		4	
I	lustria		30	
I	lungary		4	
Į	J. S. S. R.		60	
]	Italy		373	
(Canada		629	
1	11 Other		588	

YEARS OF SCHOOL COMPLETED

People of 25 No Schooling	years and 64	over	4503
Elementary:	-		
1 - 4	98		
5 - 7	332		
8	631		
High School:			
1 - 3	891		
4	1681		
College:			
1 - 3	452		
4	354		
Median	12.	L	



CENSUS DATA CONTINUED .

.(2 of 3)

FAMILY INCOME		NO. OF FAMILIES
All Families	•	1933
Under \$1,000	*	8
\$1,000, 1,999	× .	. 53 :
\$2,000, 2,999		71
\$3,000, 3,999		131
\$4,000, 4,999		175
\$5,000, 5,999		323
\$6,000, 6,999		298
\$7,000, 7,999		270
\$8,000, 8,999		. 165
\$9,000, 9,999		137
\$10,000, 14,999		233
\$15,000, 24,999		65 :
\$25,000 +		4
Median Income Families	6,690	
Madian & unrelated individ	6 197 -	

AGE	SEX	POP.	TOTAL

Age	Male	Female
(, .		
Total	3615	3844
Under 5	429	393
5 - 9	353	337
10 - 14	. 302	285
15 - 19	237	275
20 - 24	135	213
25 - 29	227	211
30 - 34	259	251
35 - 39	263	269
40 - 44	270	241
45 - 49	228	283
50 - 54	238	245
55 - 59	196	245
60 - 64	171	204
65 - 69	141	155
70 - 74	81	100
75 - 79	53	. 70
80 - 84	23	41
85 +	9	26
Median A	lge 32.4	34.1



CENSUS DATA CONTINUED (3 of 3)

EMPLOYMENT

Total Employed	3110
Private Wage - Salary	2174
Government	749
Self-Employed	187

MEANS OF TRANSPORTATION

All Workers	3017
Private Auto-Car Pool	1605
Railroad	78
Subway-Elevated	586
Bus - Street Car	430
Walk	143
Other	33
Work At Home	24
Not Reported	118

PLACE OF WORK

Inside S.M.S.A.	2835
Boston City	2291
Remainder of Suffolk County	8
Cambridge	76
Middlesex - Remainder	
of Inner Part	122
Middlesex - Remainder	
of Outer Part	82
Essex - Inner	9
Essex - Outer	0
Norfolk-Inner	191
Norfolk-Outer	56
Plymouth County	0
Outside S. M. S. A.	89
Not Reported	93



Exhibit 18.

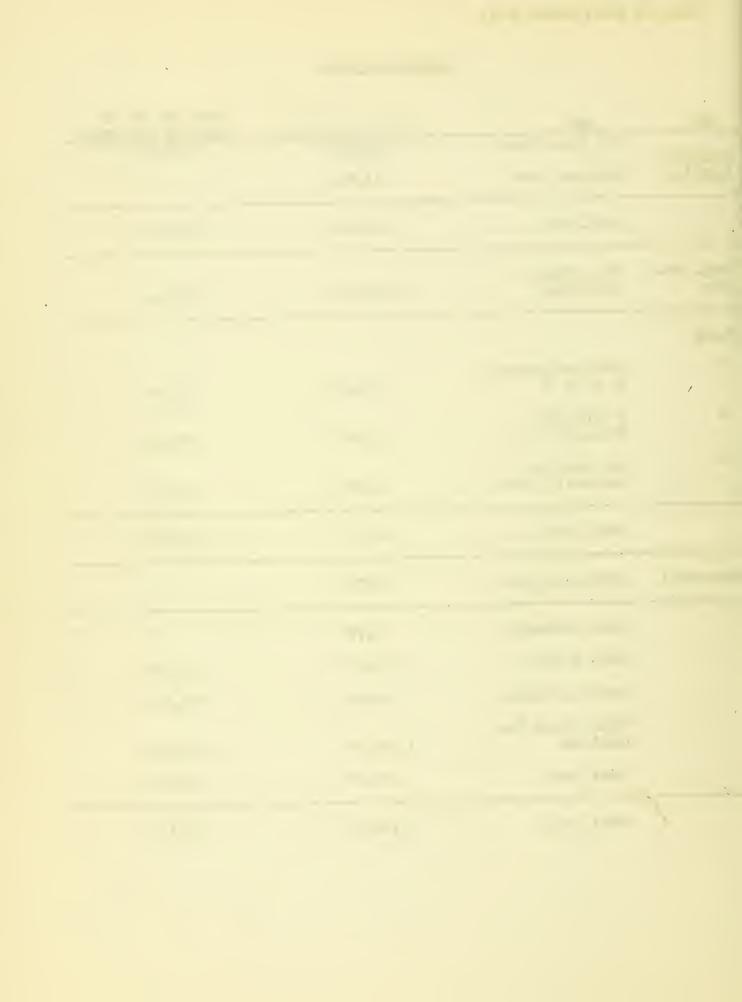
PROPOSED LAND USE IN SQUARE FEET

USE	AREA	TOTAL SQUARE FEFT	TOTAL SQUARE FEET OF AREA NOW CITY—OWNED
Streets	Main Road	60,000	32,700
m in	Ring-West	57,000	32,700
n	Ring-East	-57,000	29,000
11	Center-West	25,000	15,100
17	Center-East	28,750	15,700
n	Cul-West	8,000	6,000
. 19	Cul-East	9,000	4,100
11	Exit-West	3,800	3,300
n	Exit-East	3,600	1,700
11 .	-Grove-Cul	6,900	0
	New streets Total	259,050	140,300
	Bryant Road	14,200	14,200
	ALL Streets Total	273,250	154,500
Apartments			
18	A	302,900	102,700
17	B - 1	54,200	31,500
11	B - 2	79,500	30,600
11	С	162,000	66,700
11	D	44,100	37,800
- 11	E	23 ,90 9	500



Exhibit 18. Cont.

USE	AREA	TOTAL SQUARE FEET	TOTAL SQ. FT. OF AREA NOW CITY-OWNED
Apartments	New Apts. Total	-408,500 666, 200	269,800
(cont d.)	Existing Apts.	14,844	0
	Total Apts.	681,044	269,800
Sing. Fam.	Sing. Family Lots Total	1,580,718	357,514
Parks			
27	Park Area Between A, B, C, D	79,200	64,000
88	2 Park plots between A & B	39,600	37,300
88	All park area between C, D & E	89,800	59,300
	Total Parks	208,600	160,600
Commercial	Commercial Total	36,799	0
	Total Commercial	36 ,7 99	0
	Total Streets	273,250	154,500
	Total Apartments	681,044	269,800
	Total Single Fam. Dwellings	1,580,718	357,514
	Total Parks	208,600	160,600
	Total Area	2,780,411	942,414



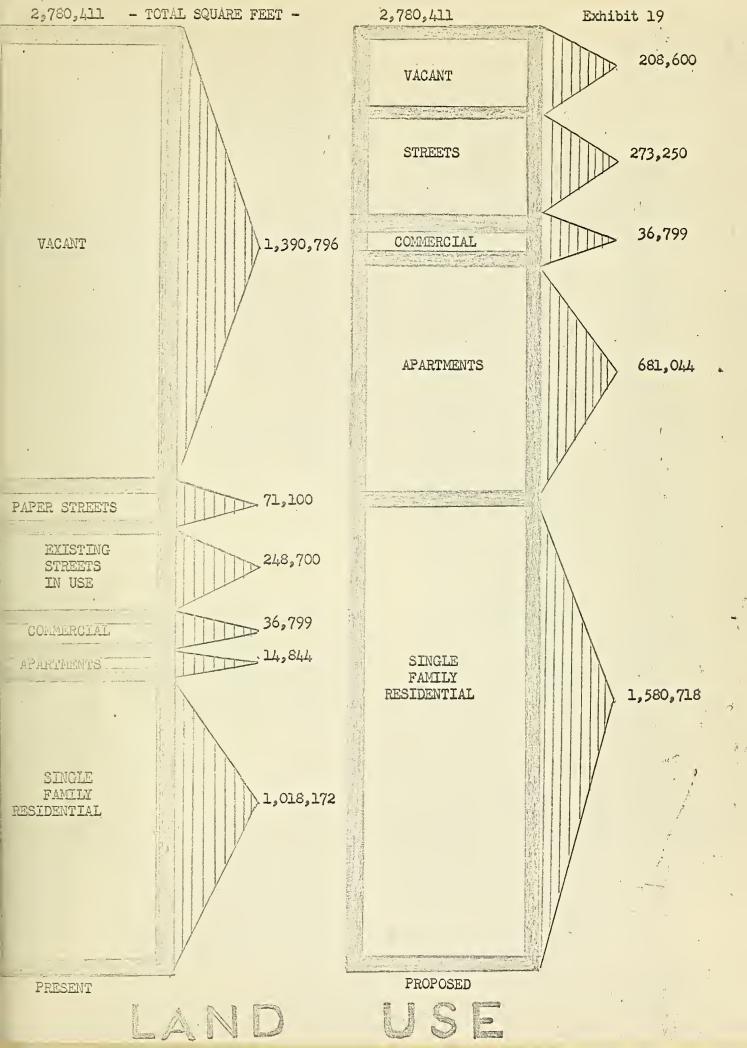




Exhibit 20 519 DWELLING EXISTING 310 NEW APTS. FUTURE 'RA DU'S MINATED. M MULTI-ILY RUCTURES NEW SINGLE 65 FAMILY DU'S 'S TO BE OR DU'S VED OR 39 MOVED MOLISHED 10 APT. APT 0 SING. SING I'S TO FAM. DU'S TO FAM MAIN REMAIN 134 134 EXISTING DU'S FUTURE DU'S



Exhibit 21.

BUILDINGS TO BE DEMOLISHED OR MOVED

Block No.	Condi- tion	Address	Owner	Bldg. Val.	Reas. for move	Move in out of lot D
В 12	В	20 Linden	James F. Donnely	2400	Road	+
в 13	C	56 Cottage	Warwick B. Freeman	1800	Road	+
B 12	В	57 Linden	John F. Hogan	2400	Road	+
в 12	В	71 Linden	Eugene D. Dench	2400	Road	+
В 12	В	18 Chestnut	Alice M. Turcotte	1000	Road	+
В 3	В	41 Linden	Andrew J. Bernard	2200	Road	+
В 4	A	61 Walnut	Theodore F. Denman	1700	Road	+
B 4	С	71 Walnut	William L. Donohue	2100	Road	+
В 9	С	19 Cedar	Thomas G. Brennan	1400	Road	+
B 10	A	151 Cottage	Abbott R. Greenberg	1400	Road	across street
B 10	В	58 Oak	Joan Taube	2300	Road	+
B 18	С	35 Overlook	Frederick W. McQueen	1400	Road	+
B 18	C	37 Overlook	Leo Lesha	1400	Road	+
B 18	C	59 Overlook	Elton M. Rawley	1300	Road	+
B 24	С	85 Overlook	Nicholas Papalici	14,00	Road	across street
В 19	A	16 Camp	George Castonguay Jr	2100	Road park	
B 1	В	75 Stimpson	Richard F. Hutchins	2300	Road	+
B 22	A	49 Stimpson	Emily Savage	1400	Road	+
В 13	В	147 Grove	Malcom R. Lawson	1800	Apts	+
В 13	С	131 Grove	George H. Schaffer	1300	Apts	+
в 13	A	137 Grove	Vincenzo M. Perilli	4000	Apts	+



Exhibit 21. Cont.

BUILDINGS TO BE DEMOLISHED OR MOVED

Block No.	Condi- tion	Address	Owner	Bldg. Val.		ve out lot	D
B 13	С	147 Grove	Michael Rindini	6300	Apts	+	
B 11	С	145 Cottage	Helen F. Walsh	1900	Apts	+	
в 11	A	64 Chestnut	Herbert L. Chen- ell	1400	Apts	+	
В 3	C	85 Linden	John J. Connors	2800	Apts	+	
в 6	C	5 Cedar	John A. Brennan	1400	Park	+	
В 9	В	3 Cedar	Theodore Scolsky	2300	Apts	+	
в 10	C	36 Oak	W. L. Hennessey	1400	Lot Size	+	
в 10	C	35 Birch	Ethel Fitzgerald	700	Lot Size	+	
B 15	С	227 Cottage	James Cambell	1400	Lot next Size lot		
B 25	В	58 Overlook	John Rimini	900	Lot Size	+	
B 25	D	68 Overlook	Marlon A. Gavin	700	Con- di- tion		+
B112	D	30 Linden	Fred L. Capen	1100	15		+
B 20	С	2 Stimpson	Daniel F. Kelley	1800	Lot	+	
B 5	С	27 Chestnut	Harriet McCarthy	1800	Road	+	
Bil	С	141 Dana	Benjamin Pulver	1000	Apt	+	
в1	A	115 Stimpson	James L. Cullins	4100	Park	+	



Exhibit 22.

LENGTH AND WIDTH OF PROPOSED STREETS

· 108	•	A STATE OF THE STA
Proposed streets	Length	Width
Main road	2000 Feet	30 Feet
Ring road West	1900. "	30 11.
Ring road East	1900 "	30 "
Center road of Ring West	1000 "	25 "
Center road of Ring East	1150 "	25 11-
Cul - de - sac East	220 · #	25 11-
Cul - de - sac West	210 1	. 25 n
Exit West	120 "	25 11
Exit East	110 "	25. 11
Grove Cul - de - sac	230 "(in fu- ture)	25
Total	8940 Feet	•.

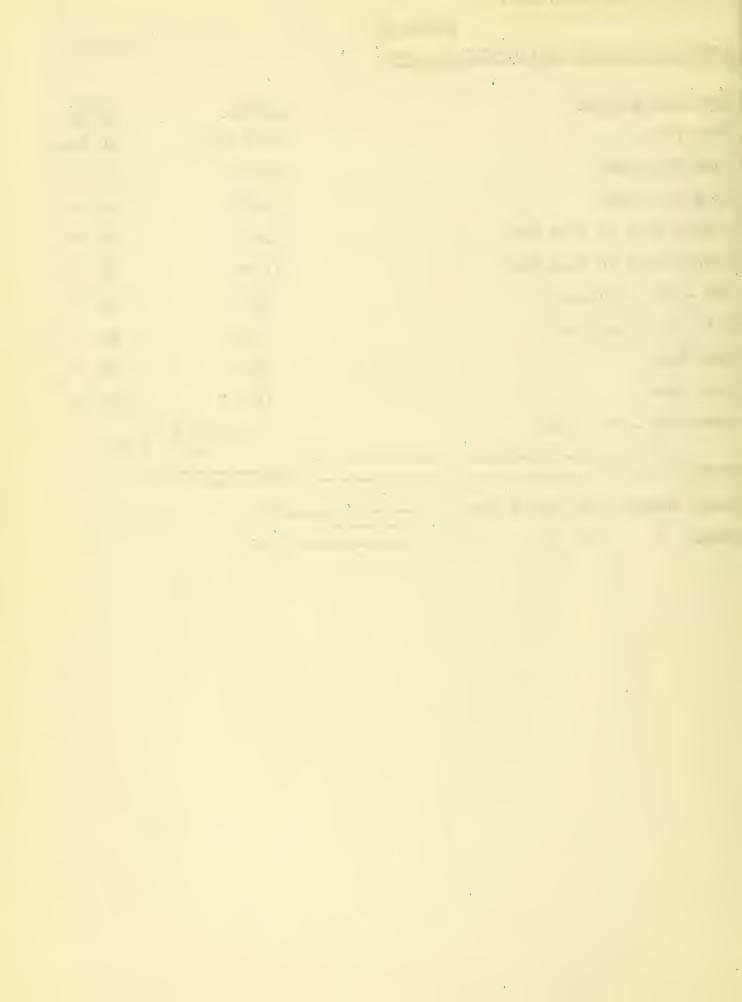


Exhibit 23.

GROVE AREA PROJECT

TOTAL COST - GROVE AREA PROJECT

A. Road construction cost

1.	House moving and demolition \$	114,000
2.	Excavation	350,486
3.	Catch basins, manholes, etc.	30,132
4.	Sewers, water mains	188,634
5.	Paving	25,156
6.	Sidewalks	1,215
7,	Curbing	77,400
8.	Hydrants, signs	7,385
9•	Grading, planting	17,298
	Sub-Total Cost\$	811,706
Add	10% for increased cost	81,170
	Sub-Total Cost	892,876
Add	10% for unexpected cost	89,287
Road const	truction Grand Total Cost	982,163

B. Other costs

l.	Other house moving and demolition	108,000
2.	Land purchase	5,996
	Sub-Total Cost\$	1,096,159
3.	10% Planning, surveying and	

3. 10% Planning, surveying and
Administrative Cost 109,615

Total Cost of Project to Redevelopment
Authority \$ 1,205,774

Note:

This cost estimate is based on average prices and construction estimates as found in similar cost estimate reports for State Highway and Road Construction according to the Mass. Dept. of Public Works, the New England Road Builders Weekly and Pulver's Construction Estimates and Costs.



Exhibit 23. Cont.

ROAD CONSTRUCTION COST ESTIMATE

Cost of road and utility construction exclusive of land-taking and surveying:

Α.	House	mov:	ing and demolition
			rage cost: \$6000 per house al houses: 19 al Cost
В.	Excava	ation	n
		1.	Tree removal
			Number 280 that cannot be bulldozed Unit cost: \$50 average Total Cost
		2.	Clearing and grubbing
			Number acres: 6 Unit price per acre: \$425 Total Cost\$2,550
		3.	Type B (Hard) Rock excavation
			Cubic yards: 6,666 Unit price per C.Y.: \$25 Total Cost
		4.	Earth excavation
			Cubic yards: 66,350 Unit price per C.Y. \$1.50 Total Cost
		5.	Trench excavation
			Cubic yards: 8,940 Unit price per C.Y.: \$5 Total Cost\$44,700
		6.	Gravel borrow
			Cubic yards: 4,190 Unit price per C.Y.: \$2.30 Total Cost



Exhibit 23. Cont. 7. Sand borrow (cover) Cubic yards: 37 Unit price per C.Y.: \$5 Total Cost-----\$185 8. Grading, Rolling, Finishing Square yards: 22,117 Square yards: 22,11, 4.42 Average cost per S.Y.: \$.42 Total Cost for Excavation----\$350,486 C. Catch basins, manholes, etc. 1. Catch basins Total number: 90 Unit cost: \$170 Total Cost----\$15,300 2. Manholes Total number: 42 Unit cost: \$165 _____\$6,930 Total Cost----3. Drop inlets Total number: 36 Unit cost: \$160 Total Cost----\$5,760 4. 12" R.C. pipe for drainage Total length: 630' Unit cost: \$3.40 \$2,142 Total Cost Total Cost for catch basins, manholes, etc. \$30,132 D. Storm sewers, sanitary sewers, water mains 1. Storm sewers 18" concrete pipe; total length: 8,940° Unit cost: \$4.60

2. Sanitary sewers

10" pipe; total length: 8,940'

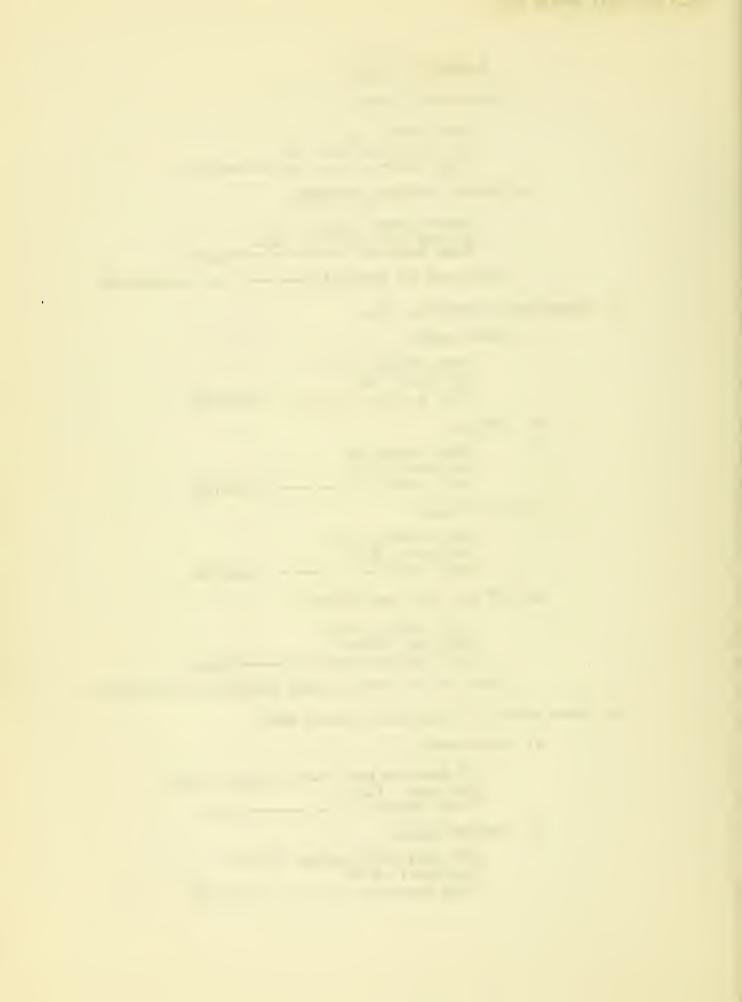


		Exhibit 23. Cont.	
	3.	Water mains	
		12" pipe; total length: 8.940° Unit cost: \$9.00 Total Cost	\$80,460
	4.	Couplings, fittings valves, etc., will cancel out savings on use of some existing water mains, so cost of couplings, etc., is included in \$80,460 of item D-3.	the
		Total Cost of sewers, water mains	\$188,631
E. Paving			
	1.	Bituminous concrete	
		Total sq. yds. of surface: 28,783 C. yds. of concrete per s.y.: .139 C. yds. of concrete: 4000 1/3 of a ton of concrete per c.y. Total tons: 1333 Unit cost: \$6.20 per ton	\$8 , 261
	2.	Bitumen for base course	
		Total sq. yds. of surface: 28,783 Bitumen: 2" thick C. yds. of bitumen: 4797 Gallons per C.Y.: 8.4 Total gallons: 40,320 Unit cost: \$.12 per gallon Total Cost	\$3,360
	3.	Crushed stone for base course	
		Total sq. yds. of surface: 28,783 Crushed stone: 4 ⁿ thick C. yds. of crushed stone: 3,198 Weight per C.Y.: 1-25 tons Total tons: 3,997 Unit cost: \$3 per ton Total Cost	\$9,991
	4.	HES. Cem. conc. base course	
		Cubic yds.: 22 Unit cost: \$25 Total Cost	# * * * * * * * * * *
	5.	Bitumen for roadway dust control	- φ ₂)

Gallons: 2,015 Unit cost: \$.16 Total Cost----

-\$322



Exhibit 23. Cont.

	6.	Calc. chl. for roadway dust control	
		Lbs.: 10,135 Unit cost: \$.05 Total Cost\$507	
	7.	Bitumen for tack coat	
		Gallons: 1,220 Unit cost: \$.38 Total Cost\$464	
	8.	Longitudinal joints prepared	
		L.F.: 2,195 Unit cost: \$.50 Total Cost \$1,098	
	9.	Transverse joints prepared	
		L.F.: 1,200 Unit cost: \$.50 Total Cost\$600	
		Total Cost for Paving	\$25,156
F.	Sidewalks		
		Cubic yds.: 332 Unit cost: \$3.66 per C.Y. Total Cost	\$1,215
G.	Curbing		
	1.	Straight granite curbing	
		L.F.: 18,000 Unit cost: \$3.50 per L.F. Total Cost\$63,000	
	2.	Curved granite curbing	
		L.F.: 3,200 Unit cost: \$4.50 Total Cost	
		Total Curbing Cost	\$77,400
н.	Hydrants, s	street signs	
	1.	Hydrants removed and reset	
		Total number: 22 Unit cost: \$140 Total Cost:\$3,080	



Exhibit 23. Cont.

	2.	Hydrants furnished and installed
		Total number: 14 Unit cost: \$250 Total Cost
	3.	Traffic signs
		Total number: 8 Unit cost: \$55.65 Total Cost
	4.	Street signs
		Total number: 18 Unit cost: \$20 Total Cost\$360
		Total Cost Hydrants, Signs\$7,385
I.	Gradin	g, Planting
	1.	Rough grading
		Sq. Yds.: 5,960 Unit cost: \$.04 per s.y. Total Cost\$238
	2.	Loam rehandled and spread
		Sq. Yds.: 5,960 Unit cost: \$1.00 per sq. yd. Total Cost
	3.	Seeding
		Sq. Yds.: 5,960 Unit cost: \$1.25 Total Cost
	4.	Shrubs
		Total number: 250 Average unit cost: \$5 Total Cost
	5•	Tree planting
		Total number: 250 Average unit cost: \$10 Total Cost \$2,500
		Sub-Total Cost usading, Planting

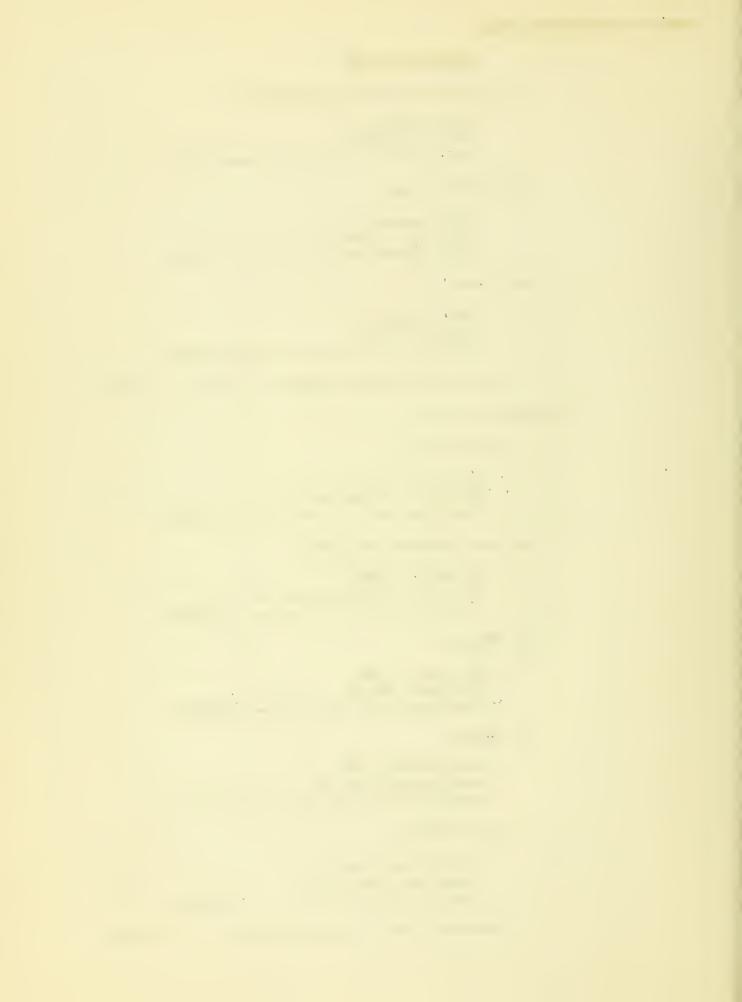


Exhibit 24.

COST ESTIMATE OF BRA LAND PURCHASE AND SALE

Á.	Value of city-owned land purchased by BRA	\$ 56,458
В.	Value of privately-owned land purchased by BRA	67,578
Ç.	Total value of land purchased by BRA (A+B)	124,036
D.	Value of land sold by BRA to city for streets	10,688
E.	Value of land sold by BRA to private ownership	107,352

Total value of land sold by BRA (D+E) F. 118,040 5,996 G. Net cost to BRA in purchase and sale of land (C-F)

H. (A-D) = \$45,770 net value to city of sale of city-owned land.

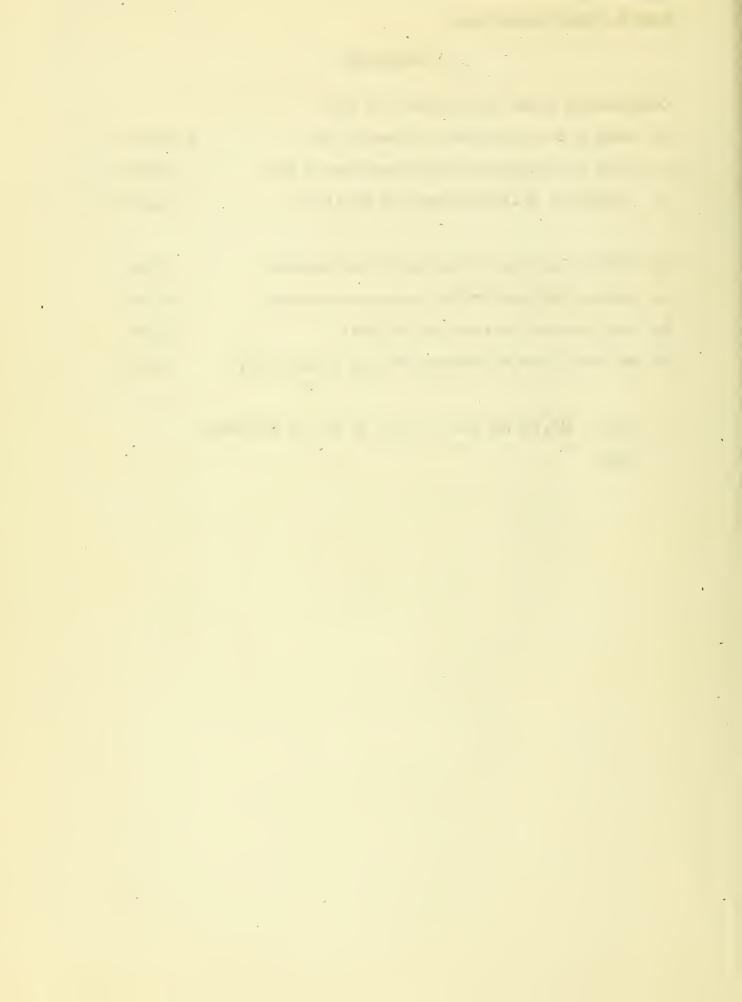


Exhibit 25.

ANALYSIS OF REVENUE AND TAXES NEEDED TO UNDERWRITE COST OF PROJECT

	Entire cost of project	2/3 Federal		1/3 City
	\$1,205,774 -	\$803 , 850	=	\$401,925
	Gross cost to city	Net value of sale of city land		Net cost to city
	\$403,925	\$45,770	=	\$356 ,1 55
	Net cost to city	Years to pay		Cost per year at 5% per year (To-tal net cost plus . 5% interest)
	\$356,155	21	=	\$16,960
	Cost per year to city	Amount payed by taxes on business per year		Amount payed by taxes on D.U.'s per year
,	\$16,960 -	\$1,420	=	\$15,540
	Amount payed by taxes on D.U.'s per year	Number of D.U.'s		Average tax per DU per year to cover project cost
	\$15,540	519	=	\$30

Average tax per D.U. per year to cover project cost



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APPENDIX II

MAPS

- 1. General Area Map*
- 2. Shopping Center Map
- 3. Land Use Map
- 4. Zoning Map
- 5. Euilding Age Map
- 6. Building Condition Map
- 7. Street Map
- 8. Utility Map
- 9. Topography Map
- 10. Ownership Map
- 11. Contiguous Ownership Map
- 12. Proposed Plan Map

* Note

Maps are not included in this report. They are separate and used for presentation purposes only.





